

Title (en)  
Plasma gun

Title (de)  
Plasmapistole

Title (fr)  
Canon à plasma

Publication  
**EP 1962321 A1 20080827 (EN)**

Application  
**EP 08100091 A 20080104**

Priority  
KR 20070018088 A 20070222

Abstract (en)  
Provided is a plasma gun 9 including: a cathode unit 20 generating plasma 6; and a return electrode unit 90 which ejects the plasma 6 generated in the cathode unit 20 toward a target and returns electrons reflected from the target to a power source. The return electrode unit 90 includes a frame 1e, an insulating tube 1h, and a gas flow means 91, 92, 93. The frame 1e includes a plasma outlet. The insulating tube 1h electrically insulates the surface of the plasma outlet. The gas flow means 91, 92, 93 are adapted to eject gases toward a target side end of the insulating tube 1h.

IPC 8 full level  
**H01J 37/32** (2006.01)

CPC (source: EP KR US)  
**C23C 14/081** (2013.01 - KR); **C23C 14/24** (2013.01 - KR); **C23C 14/54** (2013.01 - KR); **H01J 37/32422** (2013.01 - EP KR US); **H01L 21/67207** (2013.01 - KR); **H05H 1/54** (2013.01 - EP KR US)

Citation (applicant)  
• US 6881270 B1 20050419 - GEBELE THOMAS [DE], et al  
• EP 1026723 A2 20000809 - CHUGAI RO KOGYO KAISHA LTD [JP]

Citation (search report)  
• [Y] EP 1026723 A2 20000809 - CHUGAI RO KOGYO KAISHA LTD [JP]  
• [YA] US 6881270 B1 20050419 - GEBELE THOMAS [DE], et al  
• [A] JP 2003264098 A 20030919 - SUMITOMO HEAVY INDUSTRIES

Cited by  
CN102839352A

Designated contracting state (EPC)  
DE FR GB

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 1962321 A1 20080827**; JP 2008204938 A 20080904; KR 100852114 B1 20080813; TW 200845830 A 20081116;  
US 2008202422 A1 20080828

DOCDB simple family (application)  
**EP 08100091 A 20080104**; JP 2007278027 A 20071025; KR 20070018088 A 20070222; TW 96146252 A 20071205; US 789308 A 20080116